

STIC Database Tracking Number : 355886

To: Examiner Neal SEREBOFF  
Location: KNX 5A45  
Art Unit: 3626  
Thursday, Feb 16, 2011  
Case Serial Number: 10/788635

From: Matthew Hogan  
Location: EIC3600  
KNX 2D08-B  
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Matthew.Hogan@uspto.gov

### Search Notes

**Dear Examiner SEREBOFF:**

Please find attached the results of your search for the above-referenced case. The search was conducted in Dialog, in EBSCOhost's I & PC Abstract databases, and in ProQuest's Financial Times database, as well as online. **All mandatory databases for allowance were searched.**

I have listed *potential* references of interest in the opening section of these search results. However, please be sure to review the entire report. There may be additional references that you find useful.

If you have any questions about the search, or need a refocus, please do not hesitate to contact me.

Thank you for using the EIC, and we look forward to your next search!

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## I. Potential References of Interest

*\* EIC-Searcher identified “potential references of interest” are selected based on the terms/concepts provided in the examiner’s search request.*

22/3K/5 (Item 3 from file: 349)  
DIALOG(R)File 349: PCT FULLTEXT  
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00847584

**SYSTEMS AND METHODS FOR VARYING ELASTIC MODULUS APPLIANCES**  
**SYSTEMES ET PROCEDES POUR MODIFIER LES APPLICATIONS DU MODULE**  
**D'ELASTICITE**

### **Patent Applicant/Patent Assignee:**

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### **Patent Applicant/Inventor:**

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- **MILLER Ross J**  
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### **Legal Representative:**

- **HESLIN James M (agent)**

Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eight Floor, San Francisco, CA 94111(et al); US

	Country	Number	Kind	Date
Patent	WO	200180764	A1	20011101
Application	WO	2001US13217		20010424
Priorities	US	2000199649		20000425
	US	2000199650		20000425
	US	2000616830		20000714
	US	2000616222		20000714

**Designated States:** (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)

AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG,  
BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ,  
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,  
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,  
VN, YU, ZA, ZW

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

Filing Language: English

Fulltext word count: 10638

**English Abstract:**

**Improved** devices, systems and methods for **repositioning teeth** from an **initial tooth** arrangement to a **final tooth** arrangement. Repositioning is accomplished with a system comprising a series of polymeric shell appliances (100) configured to receive the **teeth** (115) and incrementally reposition individual

**teeth** in a series of successive steps. The individual appliances may be formed from layers (110, 111) having different stiffnesses (elastic modulus), and the stiffnesses of...

#### **Detailed Description:**

...these objectives will be met by the designs and methods of the present invention described hereinafter.

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#### **SUMMARY OF THE INVENTION**

The present invention provides **improved** devices, systems and methods for **repositioning teeth** from an **initial tooth** arrangement to a **final tooth** arrangement.

Repositioning is accomplished with a system comprising a series of polymeric appliances configured to receive the teeth in a cavity and incrementally reposition individual...

14/3K/3 (Item 1 from file: 349)  
DIALOG(R)File 349: PCT FULLTEXT  
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01177867

**INTERACTIVE UNIFIED WORKSTATION FOR BENCHMARKING AND CARE PLANNING**  
**POSTE DE TRAVAIL UNIFIE INTERACTIF EN VUE DE L'ETALONNAGE ET DE LA**  
**PLANIFICATION DES SOINS**

#### **Patent Applicant/Patent Assignee:**

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2350 Campbell Creek Boulevard, Suite 400, Richardson, TX 75082; US; US (Residence); US (Nationality); (For all designated states except: US)

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- **WIDDIG Jay R**  
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- **GETTO Phillip**  
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**Legal Representative:**

- **SHAH Jasvantrai C (agent)**  
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	Country	Number	Kind	Date
Patent	WO	200499906	A2-A3	20041118
Application	WO	2004US12697		20040423
Priorities	US	2003429074		20030502

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;  
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;  
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ;  
TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

Filing Language: English  
Fulltext word count: 14185

### Detailed Description:

...access to) a database to enable an orthodontist to compare the effectiveness of the orthodontic treatment administered to a given patient against a clinical benchmark **treatment** plan that is, in some sense, **optimal** for the patient.

The database consists essentially of very comprehensive collection of individual patient case **histories** for successful **treatment** of **orthodontic** patients. It contains all types of data such as biological and physical information on patients, as well as psychological information concerning patient cooperation in following... ..aids in achieving the orthodontic treatment results faster and in an effective manner. Another benefit is that the

18  
method offers a procedure to gather **data** related to patient **treatment** that can be used to develop and **enhance** benchmark **treatment**, which when successful is used in **enhancing** the standards guide to practitioners. In other words evidence based patient care protocol can be developed with such information. Data gathered in this manner are... ..as a match.

The method further includes the step 98 of devising an initial treatment plan for the orthodontic patient with the aid of the **match** from the **clinical** benchmarking knowledge database. The **initial** treatment plan may consist of tooth movement steps, appliance designs, stages of treatment, any extractions, or some combination of these features to treat the patient...

11/5,K/3 (Item 2 from file: 5)  
DIALOG(R)File 5: Biosis Previews(R)  
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16203502 **Biosis No.:** 200100375341

**The effect of occlusal discrepancies on periodontitis. I. Relationship of initial occlusal discrepancies to initial clinical parameters**

**Author:** Nunn Martha E; Harrel Stephen K (Reprint)

**Author Address:** 10246 Midway Road, Suite 101, Dallas, TX, 75229, USA\*\*USA

**Journal:** Journal of Periodontology 72 ( 4 ): p 485-494 April, 2001 2001

**Medium:** print

**ISSN:** 0022-3492

**Document Type:** Article

**Record Type:** Abstract

**Language:** English

**Abstract:** Background: A causal relationship between occlusal discrepancies and periodontal disease

has been postulated in the past. However, animal studies and clinical studies have not been able to clearly demonstrate or rule out this potential relationship. **Methods:** The records from a private practice limited to periodontics were reviewed to find patients who had complete periodontal examination records, including occlusal analysis, that were recorded at least 1 year apart. Patients who fit these criteria were divided into a group who had none of the recommended treatment (untreated n=30), those that had only nonsurgical treatment (partially treated n=18), and a control group that had complete all recommended treatment (surgically treated n=41). The data for each tooth of each patient, including occlusal status, were placed in a database and analyzed using the generalized estimating equations (GEE) method to test for associations between **initial occlusal discrepancies** and various **initial clinical** parameters while adjusting for significant confounders. **Results:** Teeth with initial occlusal discrepancies were found to have significantly deeper initial probing depths ( $P<0.0001$ ), significantly worse prognoses ( $P<0.0001$ ), and significantly worse mobility than teeth without initial occlusal discrepancies. In addition, this association between initial occlusal discrepancies and initial periodontal condition was found to hold for various subsets considered as well, including posterior teeth only and when only patients with good oral hygiene were considered. **Conclusions:** This study indicates that there is a strong association between **initial occlusal discrepancies** and various **clinical** parameters indicative of periodontal disease. Based on adjustments made for other known risk factors for periodontal disease, such as smoking, poor oral hygiene, etc., this study provides some evidence that occlusal discrepancy is an independent risk factor contributing to periodontal disease.

#### **DESCRIPTORS:**

**Major Concepts:** Dental Medicine--Human Medicine, Medical Sciences; Morphology

**Biosystematic Names:** Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia

**Organisms:** human (Hominidae)--patient

**Common Taxonomic Terms:** Animals; Chordates; Humans; Mammals; Primates; Vertebrates

**Diseases:** dental malocclusion--dental and oral disease; periodontal disease--dental and oral disease, etiology; periodontitis--dental and oral disease

**Mesh Terms:** Periodontal Diseases (MeSH); Periodontitis (MeSH)

**Miscellaneous Terms:** **Concept Codes:** dental occlusion

#### **Concept Codes:**

11102 Anatomy and Histology - Gross anatomy

19006 Dental - Pathology

#### **Biosystematic Codes:**

86215 Hominidae

**Abstract:** ...of each patient, including occlusal status, were placed in a database and analyzed using the generalized estimating equations (GEE) method to test for associations between **initial occlusal discrepancies** and various **initial clinical** parameters while adjusting for significant confounders. **Results:** Teeth with initial occlusal discrepancies were found to have significantly deeper initial probing depths ( $P<0.0001$ ), significantly... including posterior teeth only and when only patients with good oral hygiene were considered. **Conclusions:** This study indicates that there is a strong association between **initial occlusal discrepancies** and various **clinical** parameters indicative of periodontal disease. Based on adjustments made for other known risk factors for periodontal disease, such as smoking, poor oral hygiene, etc., this...



11/5,K/5 (Item 2 from file: 73)  
DIALOG(R)File 73: EMBASE  
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0066956091 EMBASE/MEDLINE No: 1819300

**Findings of dentitions whose orthodontic treatment by removable appliances with and without extractions was ended about 23 years ago.**

Eismann D.  
School of Dentistry, Erfurt.

**Corresp. Author/Affil:** Eismann D.: School of Dentistry, Erfurt.

Bilten Udruzenja ortodonata Jugoslavije = Bulletin of Orthodontic Society of Yugoslavia ( Bilt Udruz  
Ortodonata Jugosl ) ( yug ) December 1, 1991 , 24/1 (7-12)

ISSN: 0350-1043

**Document Type:** Journal ; Article **Record Type:** Abstract **File Segment:** Medline

**Language:** English

Out of a total of 300 patients the data of which and the dental casts including a control cast after an interval of 3 years were completely available, 56 patients could be investigated after an interval of about 20 years. When obtaining the last impressions they were aged 38 1/2 years. All casts were estimated and evaluated according to the method of Eismann (1969). It gives prerequisites to different dentofacial anomalies to compare them with each other under reproducible conditions. 15 factors are used in the assessment of the morphology of the dentition. Each of the criteria is measured and the results are evaluated according to the table. Points are scored for each condition registered and the total number will signify the extent of the morphological abnormality. The reduction of the numerical value between the **initial** and **final** casts is a measure of the success of **treatment**, and the **difference between** the score for end-of-treatment and follow-up casts is a measure of the degree of stability. Thus the cases between the end of treatment and the first control casts showed a slight **improvement** of the **results**. Between the first and the last control casts two trends were observed. On one hand single **dentitions** showed a further **improvement**, on the other the amount of the dentofacial anomaly symptoms increased a little. There are no trends derivable that there are special reacting differences between the extraction therapy group compared to the patients without extractions. The individual mode of reactions seems to be the most important factor with respect to the morphological changes independent of type of treatment.

## **II. Inventor Search**

### **A. Dialog**

File 348:EUROPEAN PATENTS 1978-201107  
(c) 2011 European Patent Office  
File 349:PCT FULLTEXT 1979-2011/UB=20110217/UT=20110210  
(c) 2011 WIPO/Thomson  
File 149:TGG Health&Wellness DB(SM) 1976-2011/Feb W2  
(c) 2011 Gale/Cengage  
File 444:New England Journal of Med. 1985-2011/Feb W2  
(c) 2011 Mass. Med. Soc.  
File 129:PHIND(Archival) 1980-2011/Feb W2  
(c) 2011 Informa UK Ltd  
File 130:PHIND(Daily & Current) 2011/Feb 18  
(c) 2011 Informa UK Ltd  
File 455:Drug News & Perspectives 1992-2005/Aug  
(c) 2005 Prous Science  
File 13:BAMP 2011/Feb 18  
(c) 2011 Gale/Cengage  
File 75:TGG Management Contents(R) 86-2011/Feb W2  
(c) 2011 Gale/Cengage  
File 95:TEME-Technology & Management 1989-2010/Oct W3  
(c) 2010 FIZ TECHNIK  
File 647:UBM Computer Fulltext 1988-2011/Feb W2  
(c) 2011 UBM, LLC  
File 674:Computer News Fulltext 1989-2006/Sep W1  
(c) 2006 IDG Communications  
File 15:ABI/Inform(R) 1971-2011/Feb 18  
(c) 2011 ProQuest Info&Learning  
File 9:Business & Industry(R) Jul/1994-2011/Feb 18  
(c) 2011 Gale/Cengage  
File 610:Business Wire 1999-2011/Feb 19  
(c) 2011 Business Wire.  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 275:Gale Group Computer DB(TM) 1983-2011/Dec 31  
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File 624:McGraw-Hill Publications 1985-2011/Feb 18  
(c) 2011 McGraw-Hill Co. Inc  
File 621:Gale Group New Prod.Annou.(R) 1985-2011/Dec 22

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 File 636:Gale Group Newsletter DB(TM) 1987-2011/Feb 18  
 (c) 2011 Gale/Cengage  
 File 613:PR Newswire 1999-2011/Feb 19  
 (c) 2011 PR Newswire Association Inc  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc  
 File 16:Gale Group PROMT(R) 1990-2011/Feb 18  
 (c) 2011 Gale/Cengage  
 File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group  
 File 634:San Jose Mercury Jun 1985-2011/Feb 18  
 (c) 2011 San Jose Mercury News  
 File 148:Gale Group Trade & Industry DB 1976-2011/Feb 18  
 (c) 2011 Gale/Cengage  
 File 20:Dialog Global Reporter 1997-2011/Feb 19  
 (c) 2011 Dialog  
 File 35:Dissertation Abs Online 1861-2011/Jan  
 (c) 2011 ProQuest Info&Learning  
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
 (c) 2002 Gale/Cengage  
 File 65:Inside Conferences 1993-2011/Feb 18  
 (c) 2011 BLDSC all rts. reserv.  
 File 2:INSPEC 1898-2011/Feb W2  
 (c) 2011 The IET  
 File 474:New York Times Abs 1969-2011/Feb 19  
 (c) 2011 The New York Times  
 File 475:Wall Street Journal Abs 1973-2011/Feb 14  
 (c) 2011 The New York Times  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2011/Jan  
 (c) 2011 The HW Wilson Co.  
 File 256:TecTrends 1982-2011/Feb W1  
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 File 5:Biosis Previews(R) 1926-2011/Feb W2  
 (c) 2011 The Thomson Corporation  
 File 73:EMBASE 1974-2011/Feb 18  
 (c) 2011 Elsevier B.V.  
 File 155:MEDLINE(R) 1950-2011/Feb 17  
 (c) format only 2011 Dialog  
 File 34:SciSearch(R) Cited Ref Sci 1990-2011/Feb W2  
 (c) 2011 The Thomson Corp  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 (c) 2006 The Thomson Corp  
 File 74:Int.Pharm.Abs 1970-2011/Feb B2  
 (c) 2011 The Thomson Corporation  
 File 42:Pharm. News Index 1974-2011/Feb W2

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 File 8: Ei Compendex(R) 1884-2011/Feb W2  
 (c) 2011 Elsevier Eng. Info. Inc.  
 File 6: NTIS 1964-2011/Feb W2  
 (c) 2011 NTIS, Intl Cpyrght All Rights Res  
 File 7: Social SciSearch(R) 1972-2011/Feb W2  
 (c) 2011 The Thomson Corp  
 File 350: Derwent WPIX 1963-2011/UD=201112  
 (c) 2011 Thomson Reuters  
 File 347: JAPIO Dec 1976-2010/Oct(Updated 110127)  
 (c) 2011 JPO & JAPIO

Set	Items	Description
S1	9805	AU=(Kuo, E? OR SMEDT, P? OR NGUYEN, C? OR OVERTON, C? OR Kuo E? OR
SMEDT P? OR NGUYEN C? OR OVERTON C?)		
S2	227	S1 AND (DENT? OR ORTHODONT?)
S3	128	S2 AND TREATMENT? ?
S4	21	S3 AND OUTCOME? ?
S5	17	S4 FROM 348,349,347,350
S6	4	S4 NOT S5
S7	2	RD (unique items)

7/3,K/1 (Item 1 from file: 73)  
 DIALOG(R)File 73: EMBASE  
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0069197804 EMBASE/MEDLINE No: 16552455  
**Finishing with invisalign.**

Duong T.; Kuo E.  
 Orthodontic private practice in Manteca, CA, USA.  
**Corresp. Author/Affil:** Duong T.: Orthodontic private practice in Manteca, CA, USA.  
**Corresp. Author Email:** trang@aligntech.com

Progress in orthodontics ( Prog Orthod ) ( Germany ) July 27, 2006 , 7/1 (44-55)  
**ISSN:** 1723-7785

**Document Type:** Journal ; Article **Record Type:** Abstract **File Segment:** Medline  
**Language:** English; Italian  
 ...Kuo E.

Finishing in **orthodontics** can be challenging and can involve use of various techniques and

armamentarium. This article reports a study that evaluates a procedure for using a thicker Aligner at the end of **treatment** to aide in finishing and also to determine if this would reduce the need for additional "case refinement" Aligners at the end of **treatment**. Background: Align Technology has developed the Invisalign System, which is a series of clear plastic appliances ("aligners") that move the patient's teeth in small...

**Medical Descriptors:**

\* malocclusion--therapy--th; \*orthodontic device; \*orthodontics ; \*periodontal disease  
article; clinical trial; comparative study; computer assisted therapy; **dental** care; human; image  
processing; instrumentation; methodology; patient care planning; three dimensional imaging; **treatment**  
**outcome**

**Orig. Descriptors:**

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**Dialog eLink:** **USPTO Full Text Retrieval Options**

7/3,K/2 (Item 2 from file: 73)

DIALOG(R)File 73: EMBASE

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0068696597 **EMBASE/MEDLINE No:** 14606547

**Validation of Align Technology's Treat III digital model superimposition tool and its case application.**

Miller R.J.; **Kuo E**; Choi W.

Align Technology, Inc., 881 Martic Ave, Santa Clara, CA, USA.

**Corresp. Author/Affil:** Miller R.J.: Align Technology, Inc., 881 Martic Ave, Santa Clara, CA, USA.

**Corresp. Author Email:** ross@aligntech.com

Orthodontics & craniofacial research ( Orthod Craniofac Res ) ( United Kingdom ) December 1, 2003  
, 6 Suppl 1/- (143-149)

**ISSN:** 1601-6335

**Document Type:** Journal ; Article **Record Type:** Abstract **File Segment:** Medline

**Language:** English

...**Kuo E**

5/3/1 (Item 1 from file: 348)

03488761

**Systems and methods for fabricating a dental template**

Systeme und Verfahren zur Herstellung einer **dentalen** Schablone

Systemes et procedes pour la fabrication d'un gabarit **dentaire**

**Patent Assignee:**

- **Align Technology, Inc.** (101184066)  
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(Applicant designated States: all)

**Inventor:**

- **Knopp, Peter G.**  
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- **Abolfathi, Amir**  
875 Middle Avenue; Menlo Park, CA 94025; (US)
- **Kuo, Eric**  
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- **Phan, Loc**  
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- **Wen, Huafeng**  
2117 Gossamer Avenue; Redwood Shores, CA 94065; (US)

**Legal Representative:**

- **Clark, Jane Anne et al (100815021)**  
Mathys & Squire LLP; 120 Holborn London EC1N 2SQ; (GB)

	Country	Number	Kind	Date	
Patent	EP	2266494	A1	20101229	(Basic)
Application	EP	10179634		20040721	
Priorities	US	794324		20040304	
	US	794325		20040304	

**Designated States:**

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LI; LU; MC;  
NL; PL; PT; RO; SE; SI; SK; TR

**Related Parent Numbers: Patent (Application):**EP 1570803 (EP 2004254358)

International Classification (Version 8) IPC	Level	Value	Position	Status	Version	Action	Source	Office
A61C-0007/14	A	I	F	B	20060101	20101124	H	EP

**Abstract Word Count:** 106

**NOTE: Figure number on first page:** 4B

**Language Publication:** English

Procedural: English

Application: English

Fulltext Availability Available Text	Language	Update	Word Count
CLAIMS A	(English)	201052	173
SPEC A	(English)	201052	12128
Total Word Count (Document A) 12301			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 12301			

DIALOG(R)File 348: EUROPEAN PATENTS

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5/3/2 (Item 2 from file: 348)

01949313

#### **Systems and methods for fabricating a dental template**

Systeme und Verfahren zur Herstellung einer **dentalen** Schablone

Systemes et procedes pour la fabrication d'un gabarit **dentaire**

#### **Patent Assignee:**

- **Align Technology, Inc.** (2685705)  
881 Martin Avenue; Santa Clara, CA 95050-2903 (US)  
(Applicant designated States: all)

#### **Inventor:**

- **Knopp, Peter G.**  
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875 Middle Avenue; Menlo Park, CA 94025; (US)
- **Kuo, Eric**  
912 Beach Park Boulevard, No. 86; Foster City, CA 94404; (US)
- **Phan, Loc X**  
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#### **Legal Representative:**

- **Kazi, Ilya et al (86111)**  
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	Country	Number	Kind	Date	
Patent	EP	1570803	A2	20050907	(Basic)
Patent	EP	1570803	A3	20060201	
Application	EP	2004254358		20040721	
Priorities	US	794324		20040304	
	US	794325		20040304	

**Designated States:**

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LI; LU; MC;  
NL; PL; PT; RO; SE; SI; SK; TR

**Extended Designated States:**

AL; HR; LT; LV; MK

**International Patent Class (V7): A61C-007/14**

International Classification (Version 8) IPC	Level	Value	Position	Status	Version	Action	Source	Office
A61C-0007/14	A	I	F	B	20060101	20050623	H	EP

**NOTE: Figure number on first page: 3b**

**Language** Publication: English

Procedural: English

Application: English

Fulltext Availability	Available Text	Language	Update	Word Count
CLAIMS A		(English)	200536	555
SPEC A		(English)	200536	11394
Total Word Count (Document A) 11951				
Total Word Count (Document B) 0				
Total Word Count (All Documents) 11951				

5/3/3 (Item 1 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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01993820



**AUTOMATED METHOD AND SYSTEM FOR CASE MATCHING ASSESSMENT BASED ON GEOMETRICAL EVALUATION OF STAGES IN ORTHODONTIC TREATMENT PLAN**  
**PROCEDE ET SYSTEME AUTOMATISES D'EVALUATION DE LA CORRESPONDANCE D'UNE PROTHESE DENTAIRE SUR LA BASE D'UNE EVALUATION GEOMETRIQUE DES ETAPES DANS UN PLAN DE TRAITEMENT ORTHODONTIQUE**

**Patent Applicant/Patent Assignee:**

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**Patent Applicant/Inventor:**

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	Country	Number	Kind	Date
Patent	WO	201076620	A1	20100708
Application	WO	2009IB7739		20091210
Priorities	US	2008346725		20081230

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB;  
 BG; BH; BR; BW; BY; BZ; CA; CH; CL; CN;  
 CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC;  
 EE; EG; ES; FI; GB; GD; GE; GH; GM; GT;  
 HN; HR; HU; ID; IL; IN; IS; JP; KE; KG;  
 KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS;  
 LT; LU; LY; MA; MD; ME; MG; MK; MN; MW;  
 MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PE;  
 PG; PH; PL; PT; RO; RS; RU; SC; SD; SE;  
 SG; SK; SL; SM; ST; SV; SY; TJ; TM; TN;  
 TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA;  
 ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
 FI; FR; GB; GR; HR; HU; IE; IS; IT; LT;

LU; LV; MC; MK; MT; NL; NO; PL; PT; RO;  
SE; SI; SK; SM; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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5/3/4 (Item 2 from file: 349)

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01902673

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CONCEPTEUR DE SOURIRE

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**Legal Representative:**

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	Country	Number	Kind	Date
Patent	WO	2009141248	A1	20091126
Application	WO	2009EP55720		20090512
Priorities	US	2008154634		20080523

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB;  
BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO;  
CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE;  
EG; ES; FI; GB; GD; GE; GH; GM; GT; HN;  
HR; HU; ID; IL; IN; IS; JP; KE; KG; KM;  
KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT;  
LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;  
MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH;  
PL; PT; RO; RS; RU; SC; SD; SE; SG; SK;  
SL; SM; ST; SV; SY; TJ; TM; TN; TR; TT;  
TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HR; HU; IE; IS; IT; LT;  
LU; LV; MC; MK; MT; NL; NO; PL; PT; RO;  
SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

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5/3/5 (Item 3 from file: 349)

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01857269

**METHOD AND SYSTEM FOR OPTIMISING DENTAL ALIGNER GEOMETRY**  
**PROCEDE ET SYSTEME POUR OPTIMISER UNE GEOMETRIE DE DISPOSITIF**  
**D'ALIGNEMENT DENTAIRE**

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	Country	Number	Kind	Date
Patent	WO	200997383	A1	20090806
Application	WO	2009US32335		20090129
Priorities	US	200824526		20080129

	Country	Number	Kind	Date
	US	200824534		20080129
	US	2008346735		20081230

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB;  
 BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO;  
 CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE;  
 EG; ES; FI; GB; GD; GE; GH; GM; GT; HN;  
 HR; HU; ID; IL; IN; IS; JP; KE; KG; KM;  
 KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT;  
 LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;  
 MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH;  
 PL; PT; RO; RS; RU; SC; SD; SE; SG; SK;  
 SL; SM; ST; SV; SY; TJ; TM; TN; TR; TT;  
 TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
 FI; FR; GB; GR; HR; HU; IE; IS; IT; LT;  
 LU; LV; MC; MK; MT; NL; NO; PL; PT; RO;  
 SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
 ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
 SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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01809516

**PROSTHODONTIC AND ORTHODONTIC APPARATUS AND METHODS**  
**APPAREIL DE PROSTHODONTIE ET D'ORTHODONTIE ET PROCEDES**

**Patent Applicant/Patent Assignee:**

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	Country	Number	Kind	Date
Patent	WO	200948475	A1	20090416
Application	WO	2007US81262		20071012

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR;  
CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG;  
ES; FI; GB; GD; GE; GH; GM; GT; HN; HR;  
HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU;  
LY; MA; MD; ME; MG; MK; MN; MW; MX; MY;  
MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA;  
UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; MT; NL; PL; PT; RO; SE; SI; SK;  
TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

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5/3/7 (Item 5 from file; 349)

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01753651

**TREATMENT PLANNING AND PROGRESS TRACKING SYSTEMS AND METHODS**  
**SYSTEMES ET PROCEDES DE PLANIFICATION DE TRAITEMENT ET DE SUIVI**  
**D'EVOLUTION**

**Patent Applicant/Patent Assignee:**

- **ALIGN TECHNOLOGY INC**

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	Country	Number	Kind	Date
Patent	WO	2008149221	A1	20081211
Application	WO	2008IB1478		20080606
Priorities	US	2007760689		20070608
	US	2007760701		20070608
	US	2007760705		20070608

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB;  
BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO;  
CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE;  
EG; ES; FI; GB; GD; GE; GH; GM; GT; HN;  
HR; HU; ID; IL; IN; IS; JP; KE; KG; KM;  
KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT;  
LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;  
MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH;  
PL; PT; RO; RS; RU; SC; SD; SE; SG; SK;  
SL; SM; SV; SY; TJ; TM; TN; TR; TT; TZ;  
UA; UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HR; HU; IE; IS; IT; LT;  
LU; LV; MC; MT; NL; NO; PL; PT; RO; SE;  
SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;



SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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Filing Language: English

Fulltext word count: 13852

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01651337

**METHOD AND SYSTEM FOR PROVIDING DYNAMIC ORTHODONTIC ASSESSMENT  
AND TREATMENT PROFILES**  
PROCEDE ET SYSTEME D'OBTENTION DE PROFILS D'EVALUATION ET DE TRAITEMENT  
DYNAMIQUES ORTHODONTIQUES

**Patent Applicant/Patent Assignee:**

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**Legal Representative:**

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	Country	Number	Kind	Date
Patent	WO	200848904	A2-A3	20080424
Application	WO	2007US81272		20071012
Priorities	US	2006549628		20061013

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR;  
CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG;  
ES; FI; GB; GD; GE; GH; GM; GT; HN; HR;  
HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU;  
LY; MA; MD; ME; MG; MK; MN; MW; MX; MY;  
MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA;  
UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; MT; NL; PL; PT; RO; SE; SI; SK;  
TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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01649604

**METHOD AND SYSTEM FOR PROVIDING DYNAMIC ORTHODONTIC ASSESSMENT  
AND TREATMENT PROFILES**

PROCEDE ET SYSTEME DE REALISATION D'EXAMEN ORTHODONTIQUE DYNAMIQUE ET  
DE PROFILS DE TRAITEMENT

**Patent Applicant/Patent Assignee:**

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**Patent Applicant/Inventor:**

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	Country	Number	Kind	Date
Patent	WO	200846054	A2-A3	20080417
Application	WO	2007US81277		20071012
Priorities	US	2006549633		20061013

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR;  
CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG;  
ES; FI; GB; GD; GE; GH; GM; GT; HN; HR;  
HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU;  
LY; MA; MD; ME; MG; MK; MN; MW; MX; MY;  
MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA;  
UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; MT; NL; PL; PT; RO; SE; SI; SK;  
TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;

ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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01649543

**METHOD AND SYSTEM FOR PROVIDING DYNAMIC ORTHODONTIC ASSESSMENT  
AND TREATMENT PROFILES**  
PROCEDE ET SYSTEME DE REALISATION D'EXAMEN ORTHODONTIQUE DYNAMIQUE  
ET DE PROFILS DE TRAITEMENT

**Patent Applicant/Patent Assignee:**

- **ALIGN TECHNOLOGY INC**  
881 Martin Avenue, Santa Clara, CA 95050; US; US (Residence); US (Nationality); (For all designated states except: US)

**Patent Applicant/Inventor:**

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**Legal Representative:**

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	Country	Number	Kind	Date
Patent	WO	200846066	A2-A3	20080417
Application	WO	2007US81298		20071012
Priorities	US	2006581224		20061013

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
 BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR;  
 CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG;  
 ES; FI; GB; GD; GE; GH; GM; GT; HN; HR;  
 HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
 KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU;  
 LY; MA; MD; ME; MG; MK; MN; MW; MX; MY;  
 MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL;  
 PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
 SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA;  
 UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
 FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
 LV; MC; MT; NL; PL; PT; RO; SE; SI; SK;  
 TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
 ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
 SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

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01649387

**METHOD AND SYSTEM FOR PROVIDING DYNAMIC ORTHODONTIC ASSESSMENT  
AND TREATMENT PROFILES**  
PROCEDE ET SYSTEME DE REALISATION D'EXAMEN ORTHODONTIQUE DYNAMIQUE  
ET DE PROFILS DE TRAITEMENT

**Patent Applicant/Patent Assignee:**

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**Patent Applicant/Inventor:**

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14774 Elton Court, San Jose, CA 95124; US; US (Residence); US (Nationality); (Designated only for: US)

**Legal Representative:**

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Jackson & Co., LLP, 6114 La Salle Ave., #507, Oakland, CA 94611; US

	Country	Number	Kind	Date
Patent	WO	200846064	A2-A3	20080417
Application	WO	2007US81296		20071012
Priorities	US	2006580536		20061013

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)  
AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR;  
CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG;  
ES; FI; GB; GD; GE; GH; GM; GT; HN; HR;  
HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;

KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU;  
LY; MA; MD; ME; MG; MK; MN; MW; MX; MY;  
MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA;  
UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; MT; NL; PL; PT; RO; SE; SI; SK;  
TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

Filing Language: English

Fulltext word count: 29410

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5/3/12 (Item 10 from file: 349)  
DIALOG(R)File 349: PCT FULLTEXT  
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01649323

**SYSTEM AND METHOD FOR FACILLITATING AUTOMATED DENTAL  
MEASUREMENTS AND DIAGNOSTICS**  
**SYSTEME ET PROCEDE POUR FACILITER DES MESURES ET DIAGNOSTICS DENTAIRES  
AUTOMATISES**

**Patent Applicant/Patent Assignee:**

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designated states except: US)

**Patent Applicant/Inventor:**

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- **KUO Eric**  
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**Legal Representative:**

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Jackson & Co., LLP, 6114 La Salle Ave., #507, Oakland, CA 94611; US

	Country	Number	Kind	Date
Patent	WO	200846079	A2-A3	20080417
Application	WO	2007US81313		20071012
Priorities	US	2006581067		20061013

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR;  
CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG;  
ES; FI; GB; GD; GE; GH; GM; GT; HN; HR;  
HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU;  
LY; MA; MD; ME; MG; MK; MN; MW; MX; MY;  
MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA;  
UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; MT; NL; PL; PT; RO; SE; SI; SK;  
TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;



SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

Filing Language: English

Fulltext word count: 27652

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5/3/13 (Item 11 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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01649177

**METHOD AND SYSTEM FOR PROVIDING DYNAMIC ORTHODONTIC ASSESSMENT  
AND TREATMENT PROFILES**  
PROCEDE ET SYSTEME DE REALISATION D'EXAMEN ORTHODONTIQUE DYNAMIQUE  
ET DE PROFILS DE TRAITEMENT

**Patent Applicant/Patent Assignee:**

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**Legal Representative:**

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	Country	Number	Kind	Date
Patent	WO	200846061	A2-A3	20080417
Application	WO	2007US81290		20071012
Priorities	US	2006549636		20061013

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR;  
CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG;  
ES; FI; GB; GD; GE; GH; GM; GT; HN; HR;  
HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU;  
LY; MA; MD; ME; MG; MK; MN; MW; MX; MY;  
MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA;  
UG; US; UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; MT; NL; PL; PT; RO; SE; SI; SK;  
TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

Filing Language: English

Fulltext word count: 30684

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5/3/14 (Item 12 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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01572688

**METHOD AND SYSTEM FOR PROVIDING INDEXING AND CATALOGUING OF  
ORTHODONTIC RELATED TREATMENT PROFILES AND OPTIONS**  
PROCEDE ET SYSTEME PERMETTANT DE PRODUIRE L'INDEXATION ET L'ORGANISATION  
EN CATALOGUE DE PROFILS ET D'OPTIONS DE TRAITEMENT SE RAPPORTANT A  
L'ORTHODONTIE

**Patent Applicant/Patent Assignee:**

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**Patent Applicant/Inventor:**

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	Country	Number	Kind	Date
Patent	WO	2007121449	A1	20071025
Application	WO	2007US66809		20070417
Priorities	US	2006379198		20060418

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR;  
CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES;  
FI; GB; GD; GE; GH; GM; GT; HN; HR; HU;  
ID; IL; IN; IS; JP; KE; KG; KM; KN; KP;  
KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY;  
MA; MD; MG; MK; MN; MW; MX; MY; MZ; NA;  
NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO;  
RS; RU; SC; SD; SE; SG; SK; SL; SM; SV;  
SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;  
UZ; VC; VN; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; MT; NL; PL; PT; RO; SE; SI; SK;  
TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;

ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

**Filing Language:** English

**Fulltext word count:** 11310

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5/3/15 (Item 13 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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01278657

## **DENTAL DATA MINING**

EXPLORATION DE DONNEES DENTAIRES

### **Patent Applicant/Patent Assignee:**

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- **THOMPSON Lynn M(et al)(agent)**

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	Country	Number	Kind	Date
Patent	WO	200586058	A1	20050915
Application	WO	2005US6028		20050222
Priorities	US	2004788635		20040227

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SM;  
SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;  
UZ; VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

Filing Language: English

Fulltext word count: 8871

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5/3/16 (Item 14 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00848558

**TREATMENT ANALYSIS SYSTEMS AND METHODS**  
**SYSTEME ET PROCEDE D'ANALYSE EN VUE DE TRAITEMENTS**

**Patent Applicant/Patent Assignee:**

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**Inventor(s):**

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- **MILLER Ross**  
243 Buena Vista Avenue #1513, Sunnyvale, CA 94086; US;

**Legal Representative:**

- **HESLIN James M(et al)(agent)**  
Townsend and Townsend and Crew LLP, 2 Embarcadero Center, 8th Floor, San Francisco, CA 94111; US

	Country	Number	Kind	Date
Patent	WO	200182192	A1	20011101
Application	WO	2001US13277		20010424
Priorities	US	2000557382		20000425

**Designated States:** (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)

AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG,  
BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ,  
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,  
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,  
YU, ZA, ZW

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

Filing Language: English

Fulltext word count: 8609

5/3/17 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0016933509 *Drawing available*

WPI Acc no: 2007-648574/200761

Related WPI Acc No: 2005-617201; 2007-621560; 2007-621561; 2007-621600; 2007-636147; 2007-736886; 2007-843777; 2008-A31648; 2008-D98755; 2008-F48703; 2009-J53295

**Computer-implemented method for providing e.g. dynamic orthodontic assessment involves receiving the treatment plans associated with the initial orthodontic conditions and the selected treatment goals based on the patient's teeth**

Patent Assignee: ALIGN TECHNOLOGY INC (ALIG)

Inventor: KUO E; MATOV V; ZAKHAREVICH M

Patent Family ( 3 patents, 120 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20070141527	A1	20070621	US 2004788635	A	20040227	200761	B
			US 2006379198	A	20060418		
			US 2006549633	A	20061013		
WO 2008046054	A2	20080417	WO 2007US81277	A	20071012	200829	E
WO 2008046054	A3	20080710	WO 2007US81277	A	20071012	200847	E

Priority Applications (no., kind, date): US 2004788635 A 20040227; US 2006379198 A 20060418; US 2006549633 A 20061013

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20070141527	A1	EN	69	40	C-I-P of application	US 2004788635
					C-I-P of application	US 2006379198
WO 2008046054	A2	EN				
National	AE AG AL AM AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN CO CR					

Designated States,Original	CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW			
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MT MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW			
WO 2008046054	A3	EN		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW			
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MT MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW			



### **III. Text Search Results from Dialog (Full Text dbs)**

#### **A. Full-Text Databases – PATENT**

**File 348:EUROPEAN PATENTS 1978-200950**

**(c) 2009 European Patent Office**

**File 349:PCT FULLTEXT 1979-2009/UB=20091210|UT=20091203**

**(c) 2009 WIPO/Thomson**

22/3K/5 (Item 3 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00847584

**SYSTEMS AND METHODS FOR VARYING ELASTIC MODULUS APPLIANCES  
SYSTEMES ET PROCEDES POUR MODIFIER LES APPLICATIONS DU MODULE  
D'ELASTICITE**

#### **Patent Applicant/Patent Assignee:**

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#### **Patent Applicant/Inventor:**

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- **KUO Eric**  
101 Woodland Avenue, San Francisco, CA 94117; US; US(Residence); US(Nationality);  
(Designated only for: US)

**Legal Representative:**

- **HESLIN James M (agent)**  
Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eight Floor, San Francisco,  
CA 94111(et al); US

	Country	Number	Kind	Date
Patent	WO	200180764	A1	20011101
Application	WO	2001US13217		20010424
Priorities	US	2000199649		20000425
	US	2000199650		20000425
	US	2000616830		20000714
	US	2000616222		20000714

**Designated States:** (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)

AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG,  
BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ,  
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,  
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,  
VN, YU, ZA, ZW

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;  
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

Filing Language: English

Fulltext word count: 10638

#### English Abstract:

**Improved** devices, systems and methods for **repositioning teeth** from an **initial tooth** arrangement to a **final tooth** arrangement. Repositioning is accomplished with a system comprising a series of polymeric shell appliances (100) configured to receive the **teeth** (115) and incrementally reposition individual **teeth** in a series of successive steps. The individual appliances may be formed from layers (110, 111) having different stiffnesses (elastic moduluses), and the stiffnesses of...

#### Detailed Description:

...these objectives will be met by the designs and methods of the present invention described hereinafter.

2

#### SUMMARY OF THE INVENTION

The present invention provides **improved** devices, systems and methods for **repositioning teeth** from an **initial tooth** arrangement to a **final tooth** arrangement.

Repositioning is accomplished with a system comprising a series of polymeric appliances configured to receive the teeth in a cavity and incrementally reposition individual...

14/3K/3 (Item 1 from file: 349)  
DIALOG(R)File 349: PCT FULLTEXT  
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01177867

**INTERACTIVE UNIFIED WORKSTATION FOR BENCHMARKING AND CARE PLANNING**  
**POSTE DE TRAVAIL UNIFIE INTERACTIF EN VUE DE L'ETALONNAGE ET DE LA**  
**PLANIFICATION DES SOINS**

#### Patent Applicant/Patent Assignee:

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#### Patent Applicant/Inventor:

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**Legal Representative:**

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	Country	Number	Kind	Date
Patent	WO	200499906	A2-A3	20041118
Application	WO	2004US12697		20040423
Priorities	US	2003429074		20030502

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;  
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;  
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;  
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;  
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;  
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ;

TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

**Language** Publication Language: English

Filing Language: English

Fulltext word count: 14185

### Detailed Description:

...access to) a database to enable an orthodontist to compare the effectiveness of the orthodontic treatment administered to a given patient against a clinical benchmark **treatment** plan that is, in some sense, **optimal** for the patient.

The database consists essentially of very comprehensive collection of individual patient case **histories** for successful **treatment** of **orthodontic** patients. It contains all types of data such as biological and physical information on patients, as well as psychological information concerning patient cooperation in following... ..aids in achieving the orthodontic treatment results faster and in an effective manner.

Another benefit is that the

18

method offers a procedure to gather **data** related to patient **treatment** that can be used to develop and **enhance** benchmark **treatment**, which when successful is used in **enhancing** the standards guide to practitioners. In other words evidence based patient care protocol can be developed with such information. Data gathered in this manner are... ..as a match.

The method further includes the step 98 of devising an initial **treatment** plan for the orthodontic patient with the aid of the **match** from the **clinical** benchmarking knowledge database. The **initial** treatment plan may consist of tooth movement steps, appliance designs, stages of treatment, any extractions, or some combination of these features to treat the patient...

---

DIALOG(R)File 348: EUROPEAN PATENTS

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14/3K/2 (Item 2 from file: 348)

01154623

### METHODS, SYSTEMS, AND ASSOCIATED IMPLANTABLE DEVICES FOR DYNAMIC MONITORING OF TUMORS

VERFAHREN, SYSTEME UND ZUGEHORIGE IMPLANTIERBARE EINRICHTUNGEN ZUR DYNAMISCHEN UBERWACHUNG VON TUMOREN

PROCEDES, SYSTEMES ET DISPOSITIFS IMPLANTABLES ASSOCIES ASSURANT UN PHASAGE DYNAMIQUE DES TUMEURS

**Patent Assignee:**

- **Sicel Technologies, Inc.** (2993401)  
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(Proprietor designated states: all)
- **NORTH CAROLINA STATE UNIVERSITY** (691345)  
1 Holladay Hall, Box 7003; Raleigh, NC 27695-7003 (US)  
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**Inventor:**

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- **NAGLE, H., Troy**  
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- **HALL, Leslie, C.**  
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- **MUELLER, Jeffrey**  
111 Lamlash Lane; Cary, NC 27511; (US)
- **KERMANI, Bahram, Ghaffarzadeh, Dr.**  
7110-C Calabria Court; San Diego, CA 92122; (US)

**Legal Representative:**

- **Boakes, Jason Carrington et al (95482)**  
Harrison Goddard Foote 106 Micklegate; York YO1 6JX; (GB)

	Country	Number	Kind	Date	
Patent	EP	1117328	A1	20010725	(Basic)
Patent	EP	1117328	B1	20080917	
	WO	2000018294		20000406	
Application	EP	99950017		19990929	
	WO	99US22638		19990929	
Priorities	US	102447	P	19980930	

**Designated States:**

AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LI; LU; MC; NL; PT; SE

**Extended Designated States:**

AL; LT; LV; MK; RO; SI

**Related Divisions: Patent (Application):**EP 1867275 (EP 2007016983)

**International Patent Class (V7):** A61B-005/00

International Classification (Version 8) IPC	Level	Value	Position	Status	Version	Action	Source	Office
A61B-0005/00	A	I	F	B	20060101	20000411	H	EP

**NOTE:** No A-document published by EPO

**Language** Publication: English

Procedural: English

Application: English

Fulltext Availability	Available Text	Language	Update	Word Count
CLAIMS B		(English)	200838	2036
CLAIMS B		(German)	200838	1933
CLAIMS B		(French)	200838	2420
SPEC B		(English)	200838	20888
Total Word Count (Document A) 0				
Total Word Count (Document B) 27277				
Total Word Count (All Documents) 27277				

**Specification:** ...provide information on the changes occurring during and after therapy which can be utilized to direct therapy and/or to monitor the effects of the **therapy**. This individualization of **therapy** can not only **improve outcome** but also decrease toxicity and morbidity of the **treatment**. That is, the **information** obtained on each patient's tumor can radically change the scheduling of **therapy** and **result** in an **improved outcome**. For example, patients can now be monitored from home, through telephone lines or some other remote interface, to determine a favorable or most appropriate time...to predict what definitive value may ultimately be established as necessary to overcome radioresistance now that dynamic monitoring protocols are available. This information will be **obtained** upon **clinical** applications of the **proposed** invention along with specific **correlation** with **treatments** and responses. Ultimately, lower oxygen tension may be found to be effective for treatments and that a normal or elevated oxygenation is not required for...

?

## B. Full-Text Databases – NON-PATENT

File 149:TGG Health&Wellness DB(SM) 1976-2011/Feb W2  
(c) 2011 Gale/Cengage

File 444:New England Journal of Med. 1985-2011/Feb W2  
(c) 2011 Mass. Med. Soc.

File 129:PHIND(Archival) 1980-2011/Feb W2  
(c) 2011 Informa UK Ltd

File 130:PHIND(Daily & Current) 2011/Feb 18  
(c) 2011 Informa UK Ltd

File 455:Drug News & Perspectives 1992-2005/Aug  
(c) 2005 Prous Science

File 13:BAMP 2011/Feb 18  
(c) 2011 Gale/Cengage

File 75:TGG Management Contents(R) 86-2011/Feb W2  
(c) 2011 Gale/Cengage

File 95:TEME-Technology & Management 1989-2010/Oct W3  
(c) 2010 FIZ TECHNIK

File 647:UBM Computer Fulltext 1988-2011/Feb W2  
(c) 2011 UBM, LLC

File 674:Computer News Fulltext 1989-2006/Sep W1  
(c) 2006 IDG Communications

File 15:ABI/Inform(R) 1971-2011/Feb 19  
(c) 2011 ProQuest Info&Learning

File 9:Business & Industry(R) Jul/1994-2011/Feb 18  
(c) 2011 Gale/Cengage

File 610:Business Wire 1999-2011/Feb 19  
(c) 2011 Business Wire.

File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire

File 275:Gale Group Computer DB(TM) 1983-2011/Dec 31  
(c) 2011 Gale/Cengage

File 624:McGraw-Hill Publications 1985-2011/Feb 18  
(c) 2011 McGraw-Hill Co. Inc

File 621:Gale Group New Prod.Annou.(R) 1985-2011/Dec 22  
(c) 2011 Gale/Cengage

File 636:Gale Group Newsletter DB(TM) 1987-2011/Feb 18  
(c) 2011 Gale/Cengage

File 613:PR Newswire 1999-2011/Feb 19  
(c) 2011 PR Newswire Association Inc

File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc

File 16:Gale Group PROMT(R) 1990-2011/Feb 18  
(c) 2011 Gale/Cengage

File 160:Gale Group PROMT(R) 1972-1989



(c) 1999 The Gale Group  
 File 634:San Jose Mercury Jun 1985-2011/Feb 18  
 (c) 2011 San Jose Mercury News  
 File 148:Gale Group Trade & Industry DB 1976-2011/Feb 18  
 (c) 2011 Gale/Cengage  
 File 20:Dialog Global Reporter 1997-2011/Feb 19  
 (c) 2011 Dialog

Set	Items	Description
S1	587746	(DISCREPAN? OR GAP? ? OR DIFFERENCE? ? OR NONCORRELAT? OR CORRELAT? OR MATCH? OR UNMATCH? OR NONMATCH? OR MISMATCH? OR VERSUS OR BETWEEN) (4N) (TREATMENT? ? OR THERAP? OR SERVICES OR CLINICAL)
S2	16963	DENTAL OR ORTHODON? OR TEETH OR TOOTH OR DENTIST?? OR DENTITION? ?
S3	15284	S1(F)S2
S4	13159	COMPUT? OR MEMORY OR INSTRUCTION? OR ALGORITHM? OR SOFTWARE OR RULE? OR PROTOCOL? OR PROCESS? OR MICROPROCESS? OR CPU? ? OR C()P()U OR METHOD? OR CALCULAT? OR GENERAT? OR MODEL? OR MINING OR DATA(2N) (MIN?? OR STOR?) OR DATABASE? OR PROBABILISTIC
S5	4524	(S2 OR CAVIT??? OR TREATMENT? ? OR SERVICES OR PERFORMANCE OR POLYMER()SHELL? ? OR EXPANSION? ? OR CONSTRICTION? ? OR TRANSLATION? ? OR MESIALI?ATION OR DISTALI?ATION OR INTRUSION? ? OR EXTRUSION? ? OR ANGULATION? ? OR INCLINATION? ? OR TORQUE OR TIP? ? OR ROTATION? ? OR GEOMET? OR DISPLACEMENT? OR ANGULAR) (4N) (CLUSTER? OR DATA OR HISTOR? OR FEEDBACK OR FEED?()BACK OR PARAMETER? OR INFORMATION?)
S6	2434	(INTENDED OR PROPOS? OR PLANNED OR INITIAL OR ORIGINAL OR SCREENING OR TARGETED OR PLANS OR GOAL? ? OR ENVISION? OR STRATEG?) (5N) (ACTUAL OR REALITY OR AS()APPLIED OR CLINICAL OR IN(2W) (OFFICE? ? OR CHAIR? ?) OR FINAL OR REAL()WORLD OR REALWORLD OR ACHIEVED OR OBTAINED OR ULTIMATE)
S7	7822	(OPTIM? OR IMPROV? OR UPGRAD? OR BETTER? OR BEST OR PAR OR IOTN OR ENHANC???) (6N) (EQUIPMENT OR TRAINING OR TOOL? ? OR MACHINE? ? OR TREATMENT? ? OR DIAGNOS? OR PATIENT? ? (3N)HANDL? OR APPLIANCE? OR THERAP? OR PROTOCOL? OR PROCEDUR? OR OUTCOME? ? OR RESULT? OR DESIGN? OR INITIAL OR CLINICIAN? OR DENTIST? OR PRACTICE? OR APPROACH? OR OUTCOME? OR REPOSITION? OR RISK? ? OR HABIT? OR MOVEMENT? OR DENTITION?)
S8	68	S1(20N)S6
S9	290	S7(20N)S5
S10	12	S8(F)S9
S11	11	S10 FROM 348,349
S12	1	S10 NOT S11
S13	0	S12 NOT PY>2004
S14	4	S11 NOT AY>2004
S15	68	S6(5N)S7
S16	30	S15(S) (S5 OR S1 OR S2)

S17	26	S16 NOT S10
S18	23	S17 FROM 348,349
S19	3	S17 NOT S18
S20	2	RD (unique items)
S21	0	S20 NOT PY>2004
S22	6	S18 NOT AY>2004

NO RELEVANT RESULTS IDENTIFIED THIS SET

#### IV. Text Search Results from Dialog (Abstract dbs)

##### A. Abstract Databases -- Patent

File 347:JAPIO Dec 1976-2009/Nov(Updated 100228)

(c) 2010 JPO & JAPIO

File 350:Derwent WPIX 1963-2010/UD=201019

(c) 2010 Thomson Reuters

Set	Items	Description
S1	1772457	DENTAL OR ORTHODON? OR TEETH OR TOOTH OR DENTIST?? OR DENTITION? ?
S2	18444	(DISCREPANC? OR GAP? ? OR DIFFERENCE? ? OR NONCORRELAT? OR CORRELATE? OR MATCH? OR UNMATCH? OR NONMATCH? OR MISMATCH? OR VERSUS OR BETWEEN) (4N) (TREATMENT? ? OR THERAP? OR SERVICES OR CLINICAL)
S3	12068	COMPUT? OR MEMORY OR INSTRUCTION? OR ALGORITHM? OR SOFTWARE OR RULE? OR PROTOCOL? OR PROCESS? OR MICROPROCESS? OR CPU? ? OR C()P()U OR METHOD? OR CALCULAT? OR GENERAT? OR MODEL? OR MINING OR DATA(2N) (MIN??? OR STOR?) OR DATABASE? OR PROBABILISTIC
S4	1362	(S1 OR CAVIT??? OR TREATMENT? ? OR SERVICES OR PERFORMANCE OR POLYMER()SHELL? ? OR EXPANSION? ? OR CONSTRICTION? ? OR TRANSLATION? ? OR MESIALIZATION OR DISTALIZATION OR INTRUSION? ? OR EXTRUSION? ? OR ANGULATION? ? OR INCLINATION? ? OR TORQUE OR TIP? ? OR ROTATION? ? OR GEOMET? OR DISPLACEMENT? OR ANGULAR) (4N) (CLUSTER? OR DATA OR HISTOR? OR FEEDBACK OR FEED?()BACK OR PARAMETER? OR INFORMATION?)
S5	294	(INTENDED OR PROPOS? OR PLANNED OR INITIAL OR ORIGINAL OR TARGETED OR PLANS OR GOAL? ? OR ENVISION? OR STRATEG?) (5N) (ACTUAL OR REALITY OR AS()APPLIED OR CLINICAL OR IN(2W) (OFFICE? ? OR CHAIR? ?) OR FINAL OR REAL()WORLD OR REALWORLD OR ACHIEVED OR OBTAINED OR ULTIMATE)
S6	1612	(OPTIM? OR IMPROV? OR UPGRAD? OR BETTER? OR BEST OR PAR OR IOTN OR ENHANC???) (6N) (EQUIPMENT OR TRAINING OR TOOL? ? OR MACHINE? ? OR TREATMENT? ? OR DIAGNOS? OR PATIENT? ? (3N)HANDL? OR APPLIANCE? OR THERAP? OR PROTOCOL? OR PROCEDUR? OR OUTCOME? ? OR RESULT? OR DESIGN? OR INITIAL OR CLINICIAN? OR DENTIST? OR PRACTICE? OR APPROACH? OR OUTCOME? OR REPOSITION? OR RISK? ? OR HABIT? OR MOVEMENT? OR DENTITION?)
S7	97	S2(24N)S5
S8	25	S7(S) (S6 OR S4)
S9	0	S8 FROM 347,350
S10	15	S8 NOT PY>2004
S11	7	RD (unique items)
S12	9	S4(24N)S5

S13	5	S12 NOT S7
S14	0	S13 FROM 347,350
S15	2	RD S13 (unique items)
S16	1	S15 NOT PY>2004

NO RELEVANT RESULTS IDENTIFIED THIS SET

## B. Abstract Databases – NON-PATENT

File 35:Dissertation Abs Online 1861-2011/Jan  
(c) 2011 ProQuest Info&Learning

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 Gale/Cengage

File 65:Inside Conferences 1993-2011/Feb 18  
(c) 2011 BLDSC all rts. reserv.

File 2:INSPEC 1898-2011/Feb W2  
(c) 2011 The IET

File 474:New York Times Abs 1969-2011/Feb 19  
(c) 2011 The New York Times

File 475:Wall Street Journal Abs 1973-2011/Feb 14  
(c) 2011 The New York Times

File 99:Wilson Appl. Sci & Tech Abs 1983-2011/Jan  
(c) 2011 The HW Wilson Co.

File 256:TecTrends 1982-2011/Feb W1  
(c) 2011 Info.Sources Inc. All rights res.

File 5:Biosis Previews(R) 1926-2011/Feb W2  
(c) 2011 The Thomson Corporation

File 73:EMBASE 1974-2011/Feb 18  
(c) 2011 Elsevier B.V.

File 155:MEDLINE(R) 1950-2011/Feb 17  
(c) format only 2011 Dialog

File 34:SciSearch(R) Cited Ref Sci 1990-2011/Feb W2  
(c) 2011 The Thomson Corp

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 2006 The Thomson Corp

File 74:Int.Pharm.Abs 1970-2011/Feb B2  
(c) 2011 The Thomson Corporation

File 42:Pharm. News Index 1974-2011/Feb W2  
(c) 2011 ProQuest Info&Learning

File 8:Ei Compendex(R) 1884-2011/Feb W2  
(c) 2011 Elsevier Eng. Info. Inc.

File 6:NTIS 1964-2011/Feb W2  
(c) 2011 NTIS, Intl Cpyrght All Rights Res

File 7:Social SciSearch(R) 1972-2011/Feb W2  
(c) 2011 The Thomson Corp

Set	Items	Description
S1	1772457	DENTAL OR ORTHODON? OR TEETH OR TOOTH OR DENTIST?? OR DENTITION? ?

S2 18444 (DISCREPANCY OR GAP? ? OR DIFFERENCE? ? OR NONCORRELATE? OR CORRELATE? OR MATCH? OR UNMATCH? OR NONMATCH? OR MISMATCH? OR VERSUS OR BETWEEN) (4N) (TREATMENT? ? OR THERAPY OR SERVICES OR CLINICAL)

S3 12068 COMPUT? OR MEMORY OR INSTRUCTION? OR ALGORITHM? OR SOFTWARE OR RULE? OR PROTOCOL? OR PROCESS? OR MICROPROCESS? OR CPU? ? OR C(P(U OR METHOD? OR CALCULATE? OR GENERATE? OR MODEL? OR MINING OR DATA(2N) (MIN??? OR STOR?) OR DATABASE? OR PROBABILISTIC

S4 1362 (S1 OR CAVITY??? OR TREATMENT? ? OR SERVICES OR PERFORMANCE OR POLYMER(S)SHELL? ? OR EXPANSION? ? OR CONSTRICTION? ? OR TRANSLATION? ? OR MESIALIZATION OR DISTALIZATION OR INTRUSION? ? OR EXTRUSION? ? OR ANGULATION? ? OR INCLINATION? ? OR TORQUE OR TIP? ? OR ROTATION? ? OR GEOMET? OR DISPLACEMENT? OR ANGULAR) (4N) (CLUSTER? OR DATA OR HISTOR? OR FEEDBACK OR FEED?()BACK OR PARAMETER? OR INFORMATION?)

S5 294 (INTENDED OR PROPOSE? OR PLANNED OR INITIAL OR ORIGINAL OR TARGETED OR PLANS OR GOAL? ? OR ENVISION? OR STRATEGY) (5N) (ACTUAL OR REALITY OR AS()APPLIED OR CLINICAL OR IN(2N) (OFFICE? ? OR CHAIR? ?) OR FINAL OR REAL()WORLD OR REALWORLD OR ACHIEVED OR OBTAINED OR ULTIMATE)

S6 1612 (OPTIM? OR IMPROV? OR UPGRAD? OR BETTER? OR BEST OR FAR OR IOTN OR ENHANC???) (6N) (EQUIPMENT OR TRAINING OR TOOL? ? OR MACHINE? ? OR TREATMENT? ? OR DIAGNOS? OR PATIENT? ? (3N)HANDL? OR APPLIANCE? OR THERAPY OR PROTOCOL? OR PROCEDURE? OR OUTCOME? ? OR RESULT? OR DESIGN? OR INITIAL OR CLINICIAN? OR DENTIST? OR PRACTICE? OR APPROACH? OR OUTCOME? OR REPOSITION? OR RISK? ? OR HABIT? OR MOVEMENT? OR DENTITION?)

S7 97 S2(24N)S5  
S8 25 S7(S) (S6 OR S4)  
S9 0 S8 FROM 347,350  
S10 15 S8 NOT PY>2004  
S11 7 RD (unique items)  
S12 9 S4(24N)S5  
S13 5 S12 NOT S7  
S14 0 S13 FROM 347,350  
S15 2 RD S13 (unique items)  
S16 1 S15 NOT PY>2004

11/5,K/3 (Item 2 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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16203502 Biosis No.: 200100375341

**The effect of occlusal discrepancies on periodontitis. I. Relationship of initial occlusal discrepancies to initial clinical parameters**

**Author:** Nunn Martha E; Harrel Stephen K (Reprint)

**Author Address:** 10246 Midway Road, Suite 101, Dallas, TX, 75229, USA\*\*USA

**Journal:** Journal of Periodontology 72 ( 4 ) : p 485-494 April, 2001 2001

**Medium:** print  
**ISSN:** 0022-3492  
**Document Type:** Article  
**Record Type:** Abstract  
**Language:** English

**Abstract:** Background: A causal relationship between occlusal discrepancies and periodontal disease has been postulated in the past. However, animal studies and clinical studies have not been able to clearly demonstrate or rule out this potential relationship. Methods: The records from a private practice limited to periodontics were reviewed to find patients who had complete periodontal examination records, including occlusal analysis, that were recorded at least 1 year apart. Patients who fit these criteria were divided into a group who had none of the recommended treatment (untreated n=30), those that had only nonsurgical treatment (partially treated n=18), and a control group that had complete all recommended treatment (surgically treated n=41). The data for each tooth of each patient, including occlusal status, were placed in a database and analyzed using the generalized estimating equations (GEE) method to test for associations between **initial occlusal discrepancies** and various **initial clinical** parameters while adjusting for significant confounders. Results: Teeth with initial occlusal discrepancies were found to have significantly deeper initial probing depths ( $P<0.0001$ ), significantly worse prognoses ( $P<0.0001$ ), and significantly worse mobility than teeth without initial occlusal discrepancies. In addition, this association between initial occlusal discrepancies and initial periodontal condition was found to hold for various subsets considered as well, including posterior teeth only and when only patients with good oral hygiene were considered. Conclusions: This study indicates that there is a strong association between **initial occlusal discrepancies** and various **clinical** parameters indicative of periodontal disease. Based on adjustments made for other known risk factors for periodontal disease, such as smoking, poor oral hygiene, etc., this study provides some evidence that occlusal discrepancy is an independent risk factor contributing to periodontal disease.

#### **DESCRIPTORS:**

**Major Concepts:** Dental Medicine--Human Medicine, Medical Sciences; Morphology

**Biosystematic Names:** Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia

**Organisms:** human (Hominidae)--patient

**Common Taxonomic Terms:** Animals; Chordates; Humans; Mammals; Primates; Vertebrates

**Diseases:** dental malocclusion--dental and oral disease; periodontal disease--dental and oral disease, etiology; periodontitis--dental and oral disease

**Mesh Terms:** Periodontal Diseases (MeSH); Periodontitis (MeSH)

**Miscellaneous Terms:** Concept Codes: dental occlusion

#### **Concept Codes:**

11102 Anatomy and Histology - Gross anatomy

19006 Dental - Pathology

#### **Biosystematic Codes:**

86215 Hominidae

**Abstract:** ...of each patient, including occlusal status, were placed in a database and analyzed using the generalized estimating equations (GEE) method to test for associations between **initial occlusal discrepancies** and various **initial clinical** parameters while adjusting for significant confounders. Results: Teeth with initial occlusal discrepancies were found to have significantly deeper initial probing

depths ( $P < 0.0001$ ), significantly... including posterior teeth only and when only patients with good oral hygiene were considered. Conclusions: This study indicates that there is a strong association between **initial** occlusal **discrepancies** and various **clinical** parameters indicative of periodontal disease. Based on adjustments made for other known risk factors for periodontal disease, such as smoking, poor oral hygiene, etc., this...

11/5.K/5 (Item 2 from file: 73)

DIALOG(R)File 73: EMBASE

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0066956091 **EMBASE/MEDLINE No:** 1819300

**Findings of dentitions whose orthodontic treatment by removable appliances with and without extractions was ended about 23 years ago.**

Eismann D.

School of Dentistry, Erfurt.

**Corresp. Author/Affil:** Eismann D.: School of Dentistry, Erfurt.

Bilten Udruzenja ortodonata Jugoslavije = Bulletin of Orthodontic Society of Yugoslavia ( Bilt Udruz Ortononata Jugosl ) ( yug ) December 1, 1991 , 24/1 (7-12)

**ISSN:** 0350-1043

**Document Type:** Journal ; Article **Record Type:** Abstract **File Segment:** Medline

**Language:** English

Out of a total of 300 patients the data of which and the dental casts including a control cast after an interval of 3 years were completely available, 56 patients could be investigated after an interval of about 20 years. When obtaining the last impressions they were aged 38 1/2 years. All casts were estimated and evaluated according to the method of Eismann (1969). It gives prerequisites to different dentofacial anomalies to compare them with each other under reproducible conditions. 15 factors are used in the assessment of the morphology of the dentition. Each of the criteria is measured and the results are evaluated according to the table. Points are scored for each condition registered and the total number will signify the extent of the morphological abnormality. The reduction of the numerical value between the **initial** and **final** casts is a measure of the success of **treatment**, and the **difference between** the score for end-of-treatment and follow-up casts is a measure of the degree of stability. Thus the cases between the end of treatment and the first control casts showed a slight **improvement** of the **results**. Between the first and the last control casts two trends were observed. On one hand single **dentitions** showed a further **improvement**, on the other the amount of the dentofacial anomaly symptoms increased a little. There are no trends derivable that there are special reacting differences between the extraction therapy group compared to the patients without extractions. The individual mode of reactions seems to be the most important factor with respect to the morphological changes independent of type of treatment.

#### **Medical Descriptors:**

\* orthodontic device; \*orthodontics; \*tooth extraction--adverse drug reaction --ae

adult; article; female; follow up; human; male; multivariate analysis; retrospective study; treatment



outcome

...scored for each condition registered and the total number will signify the extent of the morphological abnormality. The reduction of the numerical value between the **initial** and **final** casts is a measure of the success of **treatment**, and the **difference between** the score for end-of-treatment and follow-up casts is a measure of the degree of stability. Thus the cases between the end of treatment and the first control casts showed a slight **improvement** of the **results**. Between the first and the last control casts two trends were observed. On one hand single **dentitions** showed a further **improvement**, on the other the amount of the dentofacial anomaly symptoms increased a little. There are no trends derivable that there are special reacting differences between...

11/5,K/7 (Item 4 from file: 73)  
DIALOG(R)File 73: EMBASE  
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0065203498 EMBASE/MEDLINE No: 6930418

**The reliability of new patient screening data.**

Meiller T.; Overholser C.D.; Hasler J.F.

**Corresp. Author/Affil:** Meiller T.

Journal of dental education ( J Dent Educ ) ( United States ) August 1, 1980 , 44/8 (491-493)

ISSN: 0022-0337

**Document Type:** Journal ; Article **Record Type:** Abstract **File Segment:** Medline

**Language:** English

Screening is an important component in selecting patients for predoctoral dental education, particularly in maintaining compatibility between a system of comprehensive patient care and each student's individual departmental requirements. To meet these goals it is necessary that the information obtained at screening be a reliable predictor of the ultimate treatment plan. This paper evaluates the reliability of screening by comparing **original screening data** to the final **treatment plan**. The results indicate that there is a significant positive correlation **between** screening and **treatment planning data**. When screening **data** can reliably identify the **dental** needs of school clinic patients, the goals of accurate assignment, comprehensive care, and student requirements can be achieved in the process.

**Medical Descriptors:**

\* dental education; \*mouth disease; \*patient care planning  
article; decision making; dental care; human; probability; statistics

...necessary that the information obtained at screening be a reliable predictor of the ultimate treatment plan. This paper evaluates the reliability of screening by comparing **original screening data** to the final

**treatment plan.** The results indicate that there is a significant positive correlation **between** screening and **treatment planning data**. When screening **data** can reliably identify the **dental** needs of school clinic patients, the goals of accurate assignment, comprehensive care, and student requirements can be achieved in the process.

11/5,K/2 (Item 1 from file: 5)  
DIALOG(R)File 5: Biosis Previews(R)  
(c) 2011 The Thomson Corporation. All rights reserved.

16709560 **Biosis No.:** 200200303071

**Is uniform target dose possible in IMRT plans in the head and neck?**

**Author:** Vineberg K A; Eisbruch A; Coselmon M M; McShan D L; Kessler M L; Fraass B A (Reprint)

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**Abstract:** Purpose: Various published reports involving intensity-modulated radiotherapy (IMRT) plans developed using automated optimization (inverse planning) have demonstrated highly conformal plans. These reported conformal IMRT plans involve significant target dose inhomogeneity, including both overdosage and underdosage within the target volume. In this study, we demonstrate the development of optimized beamlet IMRT plans that satisfy rigorous dose homogeneity requirements for all target volumes (e.g.,  $\pm$  5%), while also sparing the parotids and other normal structures. Methods and Materials: The treatment plans of 15 patients with oropharyngeal cancer who were previously treated with forward-planned multisegmental IMRT were planned again using an automated optimization system developed in-house. The optimization system allows for variable sized beamlets computed using a three-dimensional convolution/superposition dose calculation and flexible cost functions derived from combinations of clinically relevant factors (costlets) that can include dose, dose-volume, and biologic model-based costlets. The current study compared optimized IMRT plans designed to treat the various planning target volumes to doses of 66, 60, and 54 Gy with varying target dose homogeneity while using a flexible optimization cost function to minimize the dose to the parotids, spinal cord, oral cavity, brainstem, submandibular nodes, and other structures. Results: In all cases, target dose uniformity was achieved through steeply varying dose-based costs. **Differences in clinical plan** evaluation metrics were evaluated for individual cases (eight different target homogeneity costlets), and for the entire cohort of **plans**. Highly conformal **plans** were **achieved**, with significant sparing of both the contralateral and

ipsilateral parotid glands. As the homogeneity of the target dose distributions was allowed to decrease, increased sparing of the parotids (and other normal tissues) may be achieved. However, it was shown that relatively few patients would benefit from the use of increased target inhomogeneity, because the range of improvement in the parotid dose is relatively limited. Hot spots in the target volumes are shown to be unnecessary and do not assist in normal tissue sparing. Conclusion: Sparing of both parotids in patients receiving bilateral neck radiation can be achieved without compromising strict target dose homogeneity criteria. The geometry of the normal tissue and target anatomy are shown to be the major factor necessary to predict the parotid sparing that will be possible for any particular case.

#### **DESCRIPTORS:**

**Major Concepts:** Dental Medicine--Human Medicine, Medical Sciences; Methods and Techniques;

Oncology--Human Medicine, Medical Sciences; Radiology--Medical Sciences

**Biosystematic Names:** Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia

**Organisms:** human (Hominidae)--patient

**Organisms: Parts Etc:** head; neck

**Common Taxonomic Terms:** Animals; Chordates; Humans; Mammals; Primates; Vertebrates

**Diseases:** oropharyngeal cancer--dental and oral disease, neoplastic disease, radiotherapy

**Mesh Terms:** Oropharyngeal Neoplasms (MeSH)

**Methods & Equipment:** intensity-modulated radiotherapy--overdosage, radiologic method, therapeutic method, underdosage, uniform target dose

#### **Concept Codes:**

06504 Radiation biology - Radiation and isotope techniques

12512 Pathology - Therapy

19006 Dental - Pathology

24004 Neoplasms - Pathology, clinical aspects and systemic effects

24008 Neoplasms - Therapeutic agents and therapy

#### **Biosystematic Codes:**

86215 Hominidae

**Abstract:** ...spinal cord, oral cavity, brainstem, submandibular nodes, and other structures. Results: In all cases, target dose uniformity was achieved through steeply varying dose-based costs. **Differences in clinical plan evaluation metrics** were evaluated for individual cases (eight different target homogeneity costlets), and for the entire cohort of **plans**. Highly conformal **plans** were **achieved**, with significant sparing of both the contralateral and ipsilateral parotid glands. As the homogeneity of the target dose distributions was allowed to decrease, increased sparing...

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#### **V. Additional Resources Searched**

No additional results of relevance found in the additional databases identified in the coverage correspondence.